

ABSTRACT

A system for decontaminating a clean-room has an  $\text{H}_2\text{O}_2$  supply device for supplying the clean-room with  $\text{H}_2\text{O}_2$  and an  $\text{H}_2\text{O}_2$  breakdown device for effecting a chemical breakdown of  $\text{H}_2\text{O}_2$  without catalyst in the clean-room. The  $\text{H}_2\text{O}_2$  breakdown device comprises a supply vessel filled with gaseous agent which can be introduced via a gas line into the clean-room where it reacts with the  $\text{H}_2\text{O}_2$ . A valve is placed in the gas line with which the amount of the gaseous agent introduced into the clean-room can be introduced under open-loop or closed-loop control. Owing to the fact that the excess  $\text{H}_2\text{O}_2$ , that is to say the  $\text{H}_2\text{O}_2$  which has not reacted with other materials in the clean-room during the decontamination is broken down in the clean-room itself, it need not be flushed out completely from the clean-room first and broken down afterwards.